配置Sensu和其他操作以註冊客戶端

目錄

簡介

本文檔介紹如何在CloudCenter上配置Sensu伺服器和其他操作，以便向伺服器新增或移除工作虛擬機器(VM)。

必要條件

需求

思科建議您瞭解以下主題：

- CloudCenter操作
- 仙素

採用元件

本文件所述內容不限於特定軟體和硬體版本。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

背景資訊

Sensu是一個用來監控機器各個方面的程式。它可以整合到CloudCenter中，以便增強對任何已部署的虛擬機器的監控能力。此演練旨在提供一個示例，說明如何通過操作將Sensu與CloudCenter整合。

設定

此版本設計為可在可直接訪問網際網路的CentOS 7虛擬機器上運行。如果您需要連線到代理，請在繼續之前執行該配置。

為傳入和傳出開啟以下埠：3000、3030、4567、5671、5672、6379。
確保Sensu伺服器具有靜態IP地址。

> 附註：代碼塊中的所有內容都設計為可複製並貼上到終端中。

安裝Epel儲存庫

```
sudo yum -y install epel-release
```

安裝Erlang

```
sudo yum -y install erlang
```

安裝Redis、RabbitMQ和配置RabbitMQ

```
sudo rpm --import http://www.rabbitmq.com/rabbitmq-signing-key-public.asc
sudo rpm -Uvh http://www.rabbitmq.com/releases/rabbitmq-server/v3.4.1/rabbitmq-server-3.4.1-
1.noarch.rpm
sudo rabbitmq-plugins enable rabbitmq_management
sudo yum -y install redis
sudo chkconfig redis on
sudo service redis start
sudo chkconfig rabbitmq-server on
sudo /etc/init.d/rabbitmq-server start
sudo rabbitmqctl add_vhost /sensu
sudo rabbitmqctl add_user sensu secret
sudo rabbitmqctl set_permissions -p /sensu sensu ".*" ".*" ".*"
```

註冊Sensu儲存庫

```
echo '[sensu]
name=sensu-main
baseurl=http://repositories.sensuapp.org/yum/el/7/x86_64/
gpgcheck=0
enabled=1' |sudo tee /etc/yum.repos.d/sensu.repo
```

安裝和配置Sensu

```
sudo yum -y install sensu
```

```
sudo rm -f /etc/sensu/config.json.example
echo '{ "api": { "host": "localhost", "bind": "0.0.0.0", "port": 4567 } }' |sudo tee
/etc/sensu/conf.d/api.json
echo '{ "client": { "name": "sensu-server", "address": "127.0.0.1", "environment": "sensu",
"subscriptions": [ "linux"], "keepalive": { "handler": "mailer", "thresholds": { "warning": 250,
"critical": 300 } }, "socket": { "bind": "127.0.0.1", "port": 3030 } } }' |sudo tee
/etc/sensu/conf.d/client.json
echo '{ "rabbitmq": { "host": "127.0.0.1", "port": 5672, "vhost": "/sensu", "user": "sensu",
"password": "secret" } }' |sudo tee /etc/sensu/conf.d/rabbitmq.json
echo '{ "redis": { "host": "127.0.0.1", "port": 6379 } }' |sudo tee /etc/sensu/conf.d/redis.json
echo '{ "transport": { "name": "rabbitmq", "reconnect_on_error": true } }' |sudo tee
/etc/sensu/conf.d/transport.json
```

啟用Sensu服務

```
sudo chkconfig sensu-server on
sudo chkconfig sensu-client on
sudo chkconfig sensu-api on
sudo service sensu-server start
sudo service sensu-client start
sudo service sensu-api start
```

安裝和配置Uchiwa

```
sudo yum -y install uchiwa
echo '{
    "sensu": [
        {
            "name": "sensu",
            "host": "localhost",
            "port": 4567,
            "timeout": 10
        }
    ],
    "uchiwa": {
        "host": "0.0.0.0",
        "port": 3000,
        "refresh": 10
    }
}' |sudo tee /etc/sensu/uchiwa.json
```
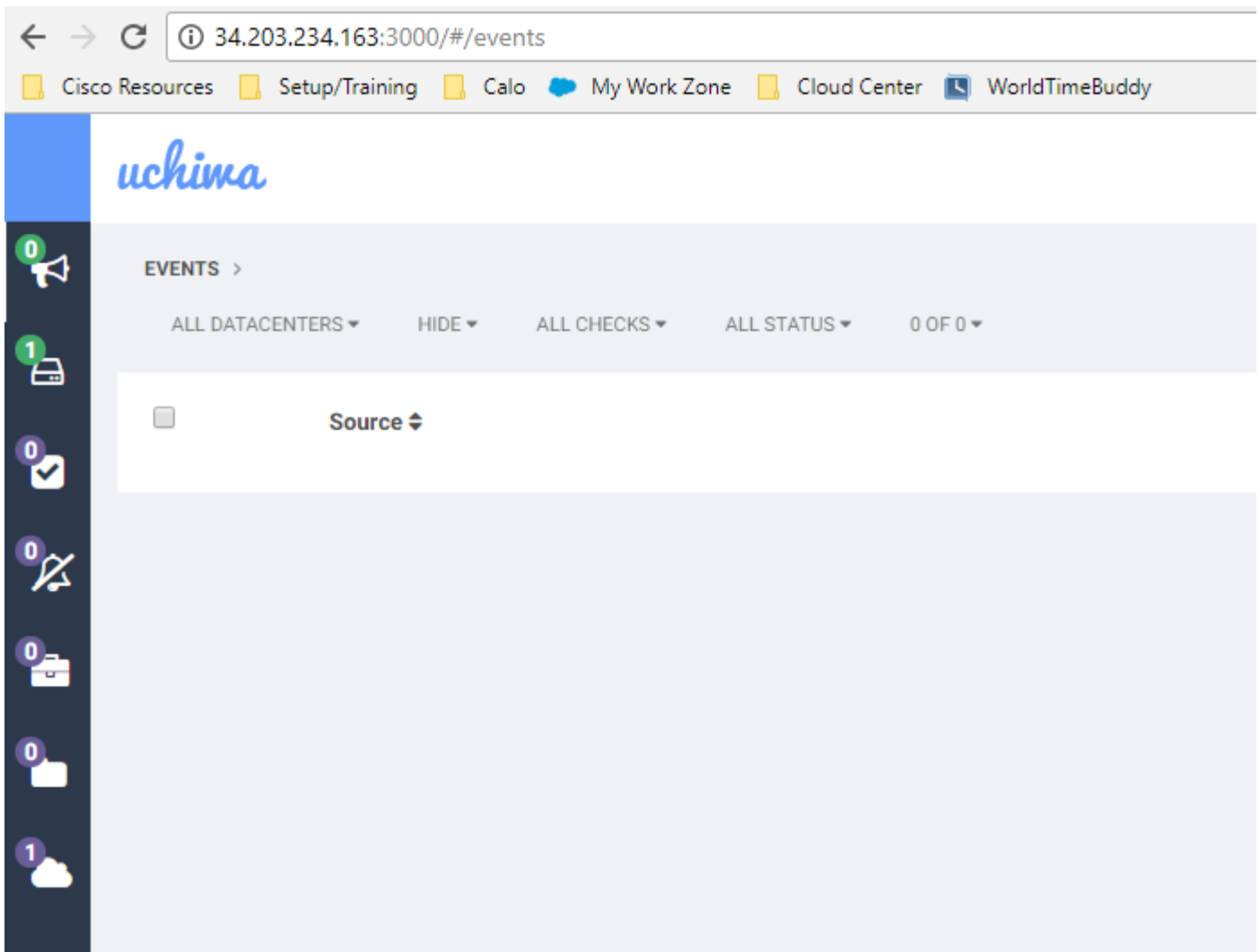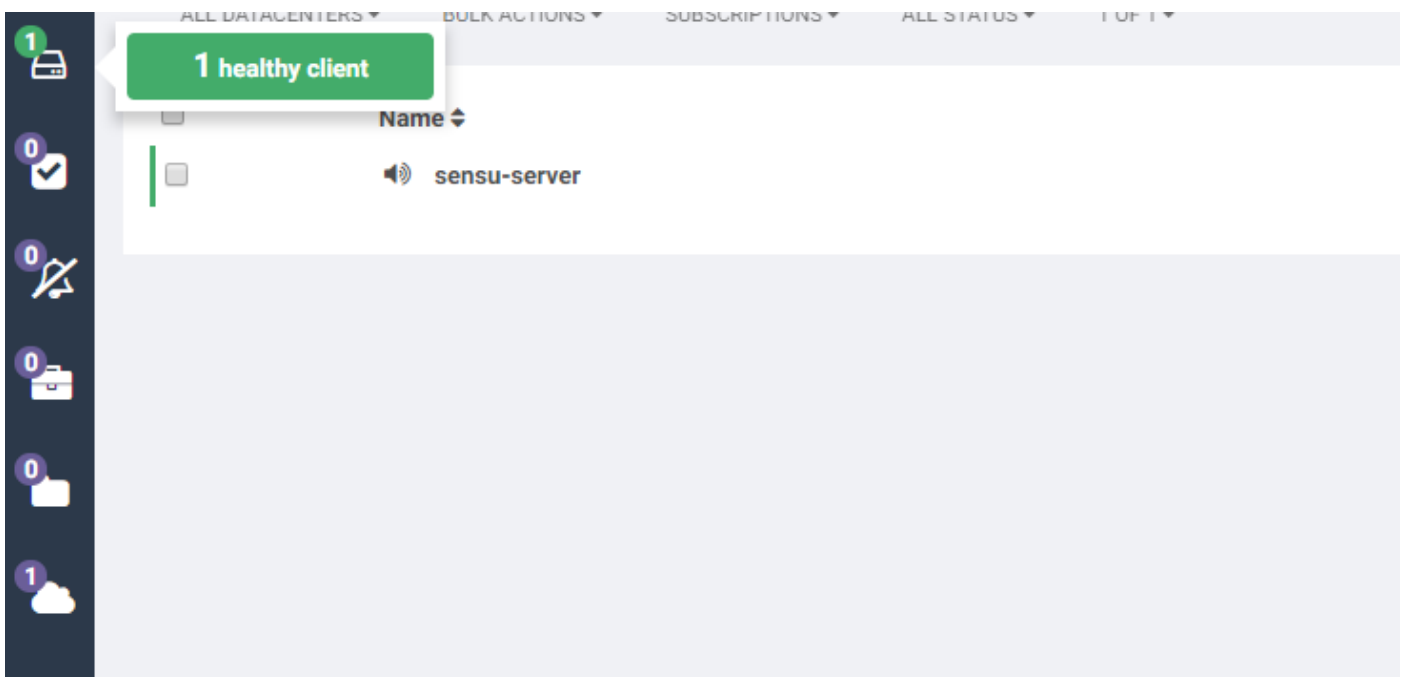
```
sudo chown uchiwa:uchiwa /etc/sensu/uchiwa.json sudo chmod 664 /etc/sensu/uchiwa.json sudo
chkconfig uchiwa on sudo service uchiwa start
```

驗證伺服器是否運行

導航到IPAddress:3000/#/事件

此時，您應該有一個名為Sensu-server的客戶端。

配置檢查

```
echo '{
```

```
    "checks": {
        "check-cpu-linux": {
            "handlers": ["mailer"],
            "command": "/opt/sensu/embedded/bin/check-cpu.rb -w 80 -c 90 ",
            "interval": 60,
            "occurrences": 5,
            "subscribers": [ "linux" ]
        }
    }
}' |sudo tee /etc/sensu/conf.d/check_cpu_linux.json

echo '{ "checks": { "check-disk-usage-linux": { "handlers": ["mailer"], "type": "metric",
"command": "/opt/sensu/embedded/bin/check-disk-usage.rb", "interval": 60, "occurrences": 5,
"subscribers": [ "linux" ] } } }' |sudo tee /etc/sensu/conf.d/check_disk_usage_linux.json
echo '{ "checks": { "check_memory_linux": { "handlers": ["mailer"], "command":
"/opt/sensu/embedded/bin/check-memory-percent.rb -w 80 -c 90 ", "interval": 60, "occurrences":
5, "refresh": 1800, "subscribers": [ "linux" ] } } }' |sudo tee
/etc/sensu/conf.d/check_memory_linux.json
sudo sensu-install -p cpu-checks sudo sensu-install -p disk-checks sudo sensu-install -p memory-
checks
```
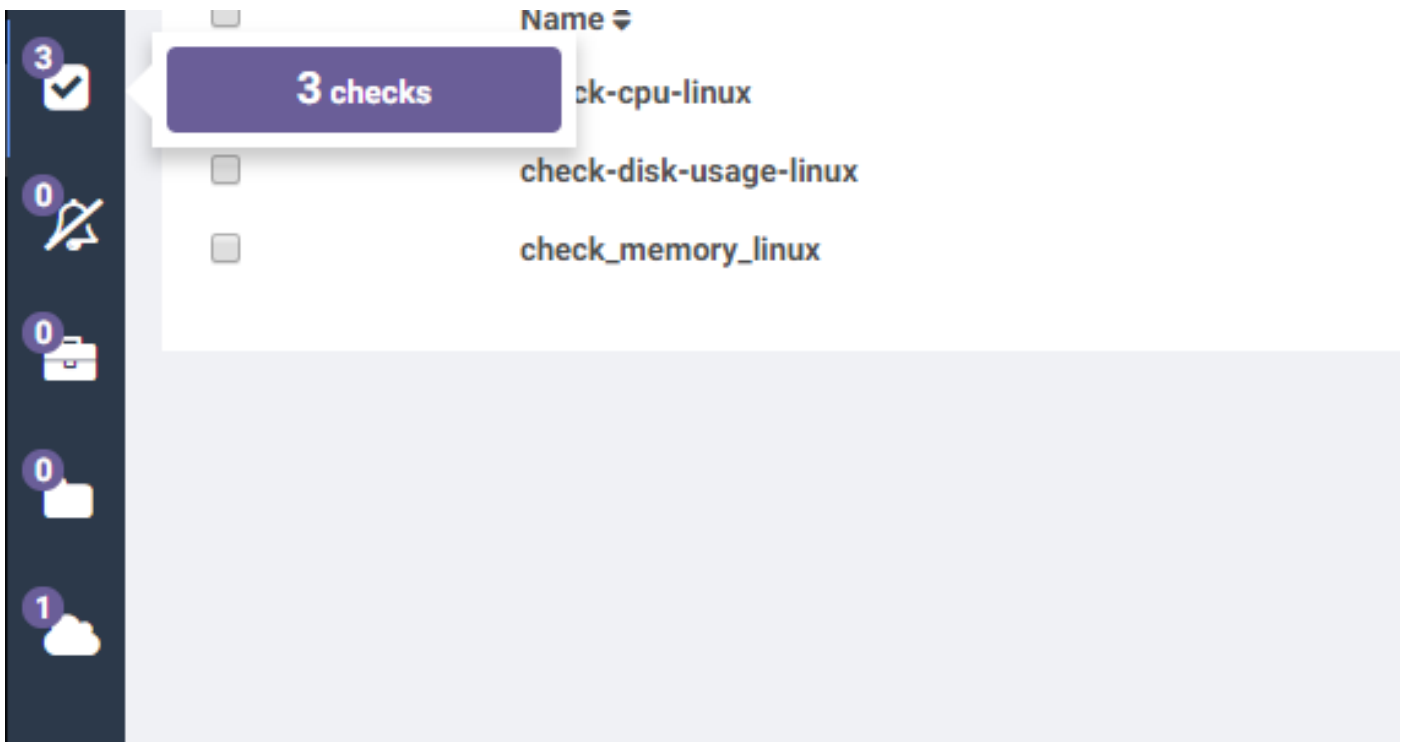
重新啟動Sensu

```
sudo service sensu-client restart && sudo service sensu-server restart && sudo service sensu-api
restart
```

一分鐘後，您應該列出三張支票。

如果按一下Sensu-server客戶端，則會看到來自對該裝置的三項檢查的詳細資訊。

更新操作指令碼

1. 下載Sensu.zip。
2. 解壓縮檔案。
3. 編輯sensuinstall.sh。
4. 將線路主機更改為"SensuServerIP"，使其具有Sensu伺服器的IP地址。

```
21                              handler    matter ,
22                              "thresholds": {
23                                  "warning": 250,
24                                  "critical": 300
25                              }
26                          },
27                      "socket": {
28                              "bind": "127.0.0.1",
29                              "port": 3030
30                          }
31                  }
32      }
33      ' | sudo tee /etc/sensu/conf.d/client.json
34
35      echo '{
36          "transport": {
37              "name": "rabbitmq",
38              "reconnect_on_error": true
39          }
40      }' | sudo tee /etc/sensu/conf.d/transport.json
41
42      echo '{
43          "rabbitmq": {
44              "host": "SensuServerIP",
45              "port": 5672,
46              "vhost": "/sensu",
47              "user": "sensu",
48              "password": "secret"
49          }
50      }' | sudo tee /etc/sensu/conf.d/rabbitmq.json
51
52      sensu-install -p cpu-checks
53      sensu-install -p disk-checks
54      sensu-install -p memory-checks
55      sensu-install -p nginx
56      sensu-install -p process-checks
57      sensu-install -p load-checks
58      sensu-install -p vmstats
59
60      sudo chkconfig sensu-client on
61
62      sudo service sensu-client start
63
```

5.編輯sensuuninstall.sh。

6.將curl -s -i -X DELETE http://SensuServerIP:4567/clients/$cliqrNodeHostname行更改為具有Sensu伺服器的IP地址。

```bash
1   #!/bin/bash
2   . /usr/local/osmosix/etc/userenv
3
4   if ps -ef | grep sensu-client; then
5           sudo service sensu-client stop
6           curl -s -i -X DELETE  http://SensuServerIP/clients/$cliqrNodeHostname
7           exit 0
8   fi
9   exit 0
10
```

7.將修改後的檔案壓縮回Sensu.zip。
8.上傳到CloudCenter Manager(CCM)已配置的儲存庫。

建立敏感操作

導航到**操作庫**，然後選擇**新建操作。**
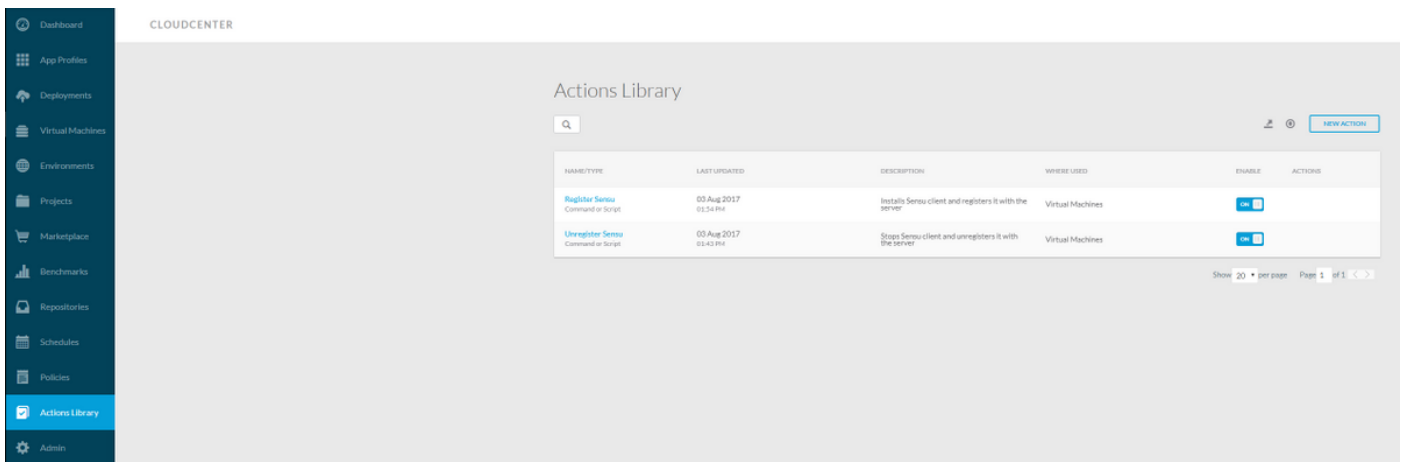
Type:命令或指令碼
操作名稱：報名
說明:安裝Sensu客戶端並將其註冊到伺服器
執行操作：在虛擬機器作業系統上
對象對映：
資源型別：CloudCenter部署的虛擬機器
應用程式配置檔案：全部
雲區域：全部
雲帳戶：全部
全部服務
資源型別：已匯入虛擬機器（已安裝代理）
雲區域：全部
雲帳戶：全部
作業系統型別：全部
操作定義：
從捆綁包執行：是
位置：您上傳到的回執和Sensu.zip檔案的路徑
套件組合中的指令碼：sensuinstall.sh

Edit Action Register Sensu

* TYPE

Command or Script ▾

* ACTION NAME

Register Sensu   11

DESCRIPTION

Installs Sensu client and registers it with the server

ACTION TIMEOUT (IN MINUTES) ⓘ

20 ▲▼

* EXECUTE ACTION

On Virtual Machine OS   Externally

The action will only be available on VMs with latest CloudCenter agent version.

* REBOOT THE VM AFTER ACTION EXECUTION?

☐ NO

* SYNC VM INFORMATION AFTER ACTION EXECUTION

☐ NO

Object Mapping

* OBJECT TYPE	APPLIED TO	ACTIONS
CloudCenter Deployed VMs	Application Profile: ALL Cloud Region: ALL Cloud Account: ALL Service: ALL	🗑
Imported VMs (with Agent Installed)	Cloud Region: ALL Cloud Account: ALL OS Types: ALL	🗑

⊕ OBJECT MAPPING

Action Definition

* EXECUTE FROM BUNDLE

YES ▮

* LOCATION

AWS Repo ⌄

* RELATIVE PATH

/Sensu.zip

* SCRIPT FROM BUNDLE

sensuinstall.sh

Custom Fields

If desired add custom fields to the action. They can be made to be user entered or defined here by you, locked and hidden

⊕ ADD CUSTOM FIELD

儲存操作並建立另一個新操作

Type:命令或指令碼
操作名稱：取消註冊Sensu
說明:停止Sensu客戶端並在伺服器中取消註冊
執行操作：在虛擬機器作業系統上
對象對映：

資源型別：CloudCenter部署的虛擬機器
應用程式配置檔案：全部
雲區域：全部
雲帳戶：全部
全部服務
資源型別：已匯入虛擬機器（已安裝代理）
雲區域：全部
雲帳戶：全部
作業系統型別：全部
操作定義：
從捆綁包執行：是
位置：您上傳到的回執和Sensu.zip檔案的路徑
套件組合中的指令碼：sensuuninstall.sh
儲存操作

Object Mapping

* OBJECT TYPE	APPLIED TO	ACTIONS
CloudCenter Deployed VMs	Application Profile: ALL Cloud Region: ALL Cloud Account: ALL Service: ALL	🗑

⊕ **OBJECT MAPPING**

Action Definition

* EXECUTE FROM BUNDLE

[YES ▭]

* LOCATION

AWS Repo ⌄

* RELATIVE PATH

/Sensu.zip

* SCRIPT FROM BUNDLE

sensuuninstall.sh

Custom Fields

If desired add custom fields to the action. They can be made to be user entered or defined here by you, locked and hidden

⊕ **ADD CUSTOM FIELD**

現在，您可以在任何已部署的虛擬機器上使用這些操作來將其註冊到Sensu伺服器並取消註冊。請注意，取消註冊不會解除安裝Sensu客戶端，它只會停止服務並從伺服器資料庫(DB)中刪除該服務。

相關資訊

- [仙素](#)
- [操作庫](#)
- [技術支援與文件 - Cisco Systems](#)